SWARTHMORE COLLEGE.

FOURTH

Annual Catalogue

1872-3.

WITH MINUTES OF THE

Ninth Annual Meeting

OF THE

STOCKHOLDERS.

SWARTHMORE, PA.

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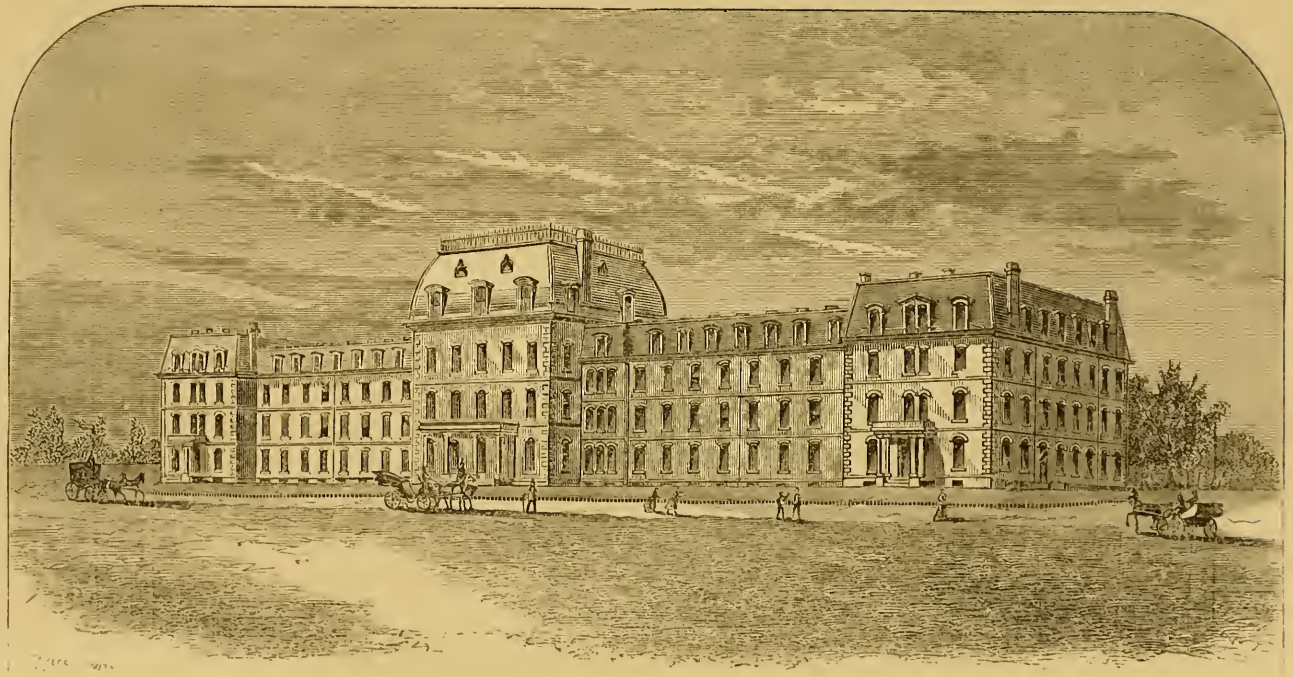

SWARTHMORE COLLEGE, Delaware County, Pa.

(Front View.)

SWARTHMORE COLLEGE, Delaware County, Pa

(Rear View.)

SWARTHMORE COLLEGE.

FOURTH

ANNUAL CATALOGUE.

1872-73.

WITH MINUTES OF THE

NINTH ANNUAL MEETING

OF THE

STOCKHOLDERS.

SWARTHMORE, PA.

Corporation.

Officers.

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CANBY BIDDLE.

No. 513 Commerce Street, Philadelphia.

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Superintendent.

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Assistant Professor of Mathematics.

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Instructor in Penmanship and Botany.

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Instructor in Elocution.

MARY L. AUSTIN,

Instructor in Latin and in English Branches.

ESTHER J. TRIMBLE,

Instructor in English Literature, Rhetoric and Elocution.

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Instructor in Physics and Chemistry.

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Instructor in Latin and in English Branches.

ELIZABETH PAULIN,

Instructor in French.

FREDERICK S. CURTIS, Ph. B.,

Instructor in Chemistry.

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Instructor in English Branches.

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Instructor in Latin and in English Branches.

KATE LOUISE ROCKWELL,

Librarian.

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Professor of Natural History.

SUSANNA P. CHAMBERS,

Instructor in Free-hand Drawing.

LEWIS LEWIS,

Instructor in Gymnastics.

Students.

Collegiate Department.

SENIOR CLASS.

Acton, Sarah Hall, ... Salem, N. J.
Magill, Helen, ... Swarthmore College.
Miller, Elizabeth Clarke, ... Morris, N. Y.
Moore, Hetty Townsend, ... Sandy Spring, Md.
Pierce, Lydia Maria Child, ... Pleasantville, N. Y.
Taylor, Lowndes, ... West Chester.

JUNIOR CLASS.

Darlington, Alice Lea, ... Philadelphia.
Evans, Ellen H., ... West Chester.
Hall, Amy Williams, ... Swarthmore.
Haviland, Alfred Tredway, ... Millbrook, N. Y.
Hibbard, Mary, ... Philadelphia.
Hoopes, Herman, ... Philadelphia.
Lukens, Annie Mary, ... Gwynedd.
Price, Ferris Walton, ... Philadelphia.
Procter, Mary Goldsmith, ... Philadelphia.
Woolston, Elizabeth Stockton, . . . Mt. Washington, Md.

SOPHOMORE CLASS.

Booth, John Broomall, ... Chester.
Cavender, Mary, ... Philadelphia.
Cavender, Charles, ... Philadelphia.
Comly, Helen Trump, ... Byberry.
Corlies, Franklin Haines, ... Ponghkeepsie, N. Y.
Field, Fannie Ellis, ... Brooklyn, N. Y.
Griffen, Walter Haydock, ... New York City.
Hanes, Lizzie, ... Woodstown, N. J.
Hooper, Edith Robinson, ... Titusville.
Lewis, John Reece, ... Media.
Lippincott, Howard White, ... Philadelphia.
Lord, Ellen, ... Orange, N. J.
McIlvain, Martha, ... Philadelphia.
Richards, John Kelvey, ... Ironton, O.

FRESHMAN CLASS.

Bassett, Frank Lippincott, . . . Salem, N. J.
Bedell, Matilda, ... Norristown.
Biddle, Anne, ... Chaddsford.
Bradley, Arthur Wadsworth, . . . Philadelphia.
Bunting, George Miller, . . . Darby.
Cady, Alice May, ... Columbus.
Canby, Laura, ... Baltimore, Md.
Comfort, Georgiana, ... Morrisville.
Dow, Herbert George, ... Bangor, Me.
Eyre, Clarence Preston, ... Woodbury, N. J.
Harbaugh, Sophronia Elizabeth, . . Sewickley.
Hoopes, Barton, Jr., ... Philadelphia.
Hunt, David, ... Catasauqua.
Jamison, Kate, ... Philadelphia.
Janney, Anna Miller, ... Hillsboro', Va.
Keese, Oliver, Jr., ... Titusville.
Leisenring, Albert Conrad, . . . Upper Lehigh.
Linton, Fr nces, ... Fox Chase.
Longstreth, Elizabeth Jackson, . . Darby.
Magill, Eudora, ... Swarthmore College.
McClure, James Traquair, . . . Philadelphia.
McIlvain, Emma, ... Philadelphia.
McKinley, William Gibson, . . Harrisburg.
Mitchell, Edwin, Jr., ... Philadelphia.
Mulford, Mary B., ... Millville, N. J.
Parrish, Mary, ... Philadelphia.
Ridgway, William Hance, . . . Coatesville.
Shannon, Mary, ... Philadelphia.
Smedley, Isaac Garrett, . . . Willistown.
Smyth, Herbert Weir, ... Wilmington, Del.
Taylor, Mahlon Kirkbride, . . . Burlington, N. J.
Thomas, Edwin, ... Catasauqua.
Twining, Rebecca Roman, . . . Yardleyville.
Walker, Richard Lawrence, Jr., . . New York City.
Walter, Emile, ... Englewood, N. J.
Whinery, Leona Margaret, . . . Salem, Ohio.
Willets, Charlotte Moore, . . . Jericho, L. I.
Willits, Mary, ... Maiden Creek.
Wimer, Caroline, ... Philadelphia.
Worth, William Penn, ... Coatesville.

Preparatory Department.

CLASS A.

Allderdice, William Hillary,	Richmond, Va.
Barker, William S.,	New Brighton.
Battelle, Frederick Cutler,	Philadelphia.
Bringhurst, Anna,	Wilmington, Del.
Brown, Francis Shunk,	Dover, Del.
Burdsall, Ellwood, Jr.,	Port Chester, N. Y.
Burdsall, Richard Howard,	Port Chester, N. Y.
Chain, Samuel Hugh,	Philadelphia.
Chamberlain, Henry,	Camden, N. J.
Chambers, Simon Bernard,	Philadelphia.
Chandlee, Eliza,	Poughkeepsie, N. Y.
Clement, Samuel Walter,	Haddonfield, N. J.
Colley, Edward,	Washington, D. C.
Colley, Frank,	Washington, D. C.
Corson, Norman,	Norristown.
Denègre, Edward,	New Orleans, La.
Fetterman, Thomas Moore,	Philadelphia.
Franklin, Joseph Frederick,	Flushing, N. Y.
Frick, George,	Danville.
Gilpin, Bernard, Jr.,	Baltimore, Md.
Hallowell, William S.,	Fairton, N. J.
Harbaugh, Sarah Springer,	Sewickley.
Hatch, Charles Edward Lex,	Titusville.
Hickman, Edward Shimer,	Cheyney P. O.
Hicks, Rachel,	Roslyn, N. Y.
Houston, Harry Roberts,	Philadelphia.
Howard, Elizabeth,	Orange, N. J.
Janney, Rebecca Talbott,	Hillsboro', Va.
Johnson, Helen Rowland,	Germantown.
Julian, Frederick Hoover,	Centreville, Ind.
Kinsey, Charles Satterthwaite,	Jenkintown.
Lang, James Traquair,	Media.
Latta, Margaret Douglas Wilson,	Parkesburg.
Levis, Garrett Harrison,	Kelleyville.
Merritt, Daniel Tobey,	Millbrook, N. Y.

Miller, Henry Hallowell, . . . Sandy Spring, Md.
Moore, Elizabeth, ... West Grove.
Osborn, Frank, ... Middletown, N. J.
Osborn, Mary W., ... Middletown, N. J.
Paine, Charles William, ... Philadelphia.
Patterson, Anna, ... New Castle.
Pearson, James, ... Mercer.
Peirce, Howell, ... South Charlestown, O.
Potts, George Henry, ... New York City.
Price, George Ward, ... Chestnut Hill.
Rhodes, Morris, ... Danville.
Richardson, Mary Andrews, . . Wilmington, Del.
Richardson, Maggie, ... Wilmington, Del.
Roberts, Rebecca Hunt, . . . Burlington, N. J.
Saunders, Sarah Sleeper, . . . Philadelphia.
Shoop, William G., ... Danville.
Smith, Mary Frank, ... Philadelphia.
Stewart, Thomas Selby, Jr., . . . Milton.
Taggart, David, ... Northumberland.
Tomlinson, William Brinkerhoff, . . Mt. Holly, N. J.
Watson, Henry Winfield, . . . Attleborough.
Webster, Thomas, Jr., ... Philadelphia.
Williamson, Rebecca John, . . . Media.
Willets, Isaac D., ... Flushing, L. I.
Wimer, William Woodfield, Jr., . . Philadelphia.
Woodward, Harvey, ... Laporte, Ind.
Yardley, Elizabeth Field, . . . Mt. Washington, Md.
Yeatman, Mary Florence, . . . Fairville.

CLASS B.

Bassett, Harriet, ... Salem, N. J.
Battelle, William Smull, ... Philadelphia.
Beatty, Ella Maria, ... Media.
Biddle, Martha Canby, ... Philadelphia.
Brewer, Mary, ... Philadelphia.
Bunting, Harry Mulford, ... Philadelphia.
Burr, Caroline Elizabeth, . . . Germantown.
Cassin, John, ... Philadelphia.
Chambers, John Paul, ... Philadelphia.
Cummins, James Shelden, . . . Media.

Davison, Alexander Young,	Morton.
Dell, Franklin P.,	Philadelphia.
Dick, Evans Rogers,	West Chester.
Gould, Rebekah Wright,	Hudson, N. Y.
Griscom, Walter Davis,	Salem, N. J.
Hall, Harrison Clarke,	Swarthmore.
Hallowell, Eugene Yerkes,	Norristown.
Hunt, Joshua,	Catasauqua.
Hough, Emily Louise,	Swarthmore College.
Johnson, Llewellyn Haskell,	Orange, N. J.
Justice, Herbert McIlvain,	Philadelphia.
Keiser, Henry Albert,	Hokendauqua.
Lippincott, Elisha Eden,	Long Branch, N. J.
Lippincott, Charles Cassiday,	Marlton, N. J.
McAllister, Harry,	Wallingford.
McAllister, Oswald,	Wallingford.
Mench, Adaline,	Philadelphia.
Miller, Hannah John,	Media.
Moore, Sallie Maria,	Orange, N. J.
Morris, Elizabeth,	Philadelphia.
Mudge, Henry Willets,	Glen Cove, L. I.
Mulford, Ella,	Millville, N. J.
Palmer, Francis Jackson,	Brooklyn, N. Y.
Paul, Anna Parkhill,	Wallingford.
Randolph, Nathaniel Archer,	Chaddsford.
Scattergood, Israel Middleton,	Moorestown, N. J.
Seaman, Samuel Jackson Underhill,	Jericho, L. I.
Sharp, Benjamin,	Germantown.
Shoemaker, Charles Harry,	Philadelphia.
Sinn, Howard,	Philadelphia.
Smith, George Peyton,	Philadelphia.
Smith, Mary Elizabeth,	Philadelphia.
Webster, Joseph Goldie,	Fanwood, N. J.
Webster, Mary Adelaide,	Fanwood, N. J.
Yardley, Rebecca Turner,	Mt. Washington, Md.
Yarnall, Edwin Atlee,	Media.
Yates, Emma Achsah,	Columbus.

CLASS C.

Anderson, Frank,	New York City.
Abbott, Robert Merritt,	Bethlehem.

Beatty, John Franklin,	Media.
Blair, Carrie Rose,	Columbus.
Broomall, Henry Louis,	Media.
Bruere, John Hankens,	Recklesstown, N. J.
Canby, William, Jr.,	Baltimore, Md.
Cassin, Emily,	Philadelphia.
Cassin, Isaac Sharpless, Jr.,	Philadelphia.
Dankel, Nathaniel,	Alburtis.
Davison, Lewis Drexel,	Morton.
Dick, Franklin, Jr.,	West Chester.
Dorsey, Frances,	Philadelphia.
Edge, Joseph George,	Jersey City, N. J.
Edgerton, Theodore Tracy,	Brooklyn, N. Y.
Ellison, John Barker,	Riverton, N. J.
Embree, James Robert,	New York City.
Forman, Mary Hallowell,	Whitehallville.
Fetterman, Elizabeth Crawford,	Philadelphia.
Gill, Clara,	Kennedyville, Md.
Glover, James,	Mt. Ephraim, N. J.
Glover, Joseph Lewis,	Mt. Ephraim, N. J.
Hall, Ralph Webster,	Fanwood, N. J.
Henderson, Frank Clarence,	Philadelphia.
Henderson, Ida,	Philadelphia.
Heverin, Joseph Comygers,	Dover, Del.
Hufnal, Henry Glenn,	Oakdale.
Jefferis, Robert Offley,	Swarthmore.
Lewis, John Henry,	Yonkers, N. Y.
Lewis, John Howard,	Oakdale.
Lewis, Isaac Buck,	Yonkers, N. Y.
Lewis, Mary,	Oakdale.
Linville, Samuel Rush,	Philadelphia.
Lovett, George Sidney,	Washington, D. C.
Magill, Beatrice,	Swarthmore College.
*Magill, Francis Gardner,	Swarthmore College.
Magill, Gertrude Burleigh,	Swarthmore College.
Maitland, Edward Vincent,	Philadelphia.
Maitland, Virginia Katherine,	Philadelphia.
Matlack, William Warrington,	Philadelphia.
McIlvain, Edwin Pearson,	Chester.

*Deceased.

McIlvain, Harry Spencer, . . . Chester.
McIlvain, James Sterling, . . . Mount Holly, N. J.
Miller, Charles Robert, . . . West Chester.
Miller, Harry Barder, ... Philadelphia.
Mitchell, Jeannie Carr, ... Philadelphia.
Newhall, Annie P., ... Philadelphia.
Paul, David Stanley, ... Media.
Paulin, Amelie Antoinette, . . . Swarthmore College.
Paulin, Eugene, ... Swarthmore College.
Peterson, John Bouvier, ... Philadelphia.
Pound, Robinson, ... Eatontown, N. J.
Ramsay, James B., ... Philadelphia.
Reed, Loring Woods, ... Washington, D. C.
Rice, Philip Hallowell, ... Media.
Scattergood, George Kiem, . . . Moorestown, N. J.
Schooley, Susan Duffield, ... Brooklyn, N Y.
Scott, Townsend, Jr., ... Baltimore, Md.
Sharp, Leedom, ... Germantown.
Shermer, Isabella Dillon, . . . Philadelphia.
Shermer, Joseph Hooker, ... Philadelphia.
Shoemaker, Alvin Tomlinson, . . Baltimore, Md.
Sickles, John Frederick, ... Swarthmore.
Simpson, Charles Henry, . . . Philadelphia.
Smith, Edwin, ... Philadelphia.
Smith, James Chalmers, . . . Philadelphia.
Stewart, George Childs, ... Baltimore, Md.
Taggart, James McCurley, . . . Litiz.
Taylor, George Loomis, ... Bangor, Me.
Taylor, Louis Curtis, ... Bangor, Me.
Walter, Helen, ... New York City.
Warrington, James Franklin, . . Camden, N. J.
Weaver, Valentine Wygentd, . . . Alburtis.
Wilbur, Warren Abbott, . . . Bethlehem.
Wilson, Daniel Mifflin, ... Dover, Del.
Wilson, James Frank, ... Washington, D. C.
Wilson, John Sims, ... Philadelphia.
Young, Alexander Davison, . . . Morton.
Young, Lewis Ivins, ... Morton.
Young, Wilson Brainerd, . . . Morton.

SUMMARY.

Collegiate Department.

Seniors,	6
Juniors,	10
Sophomores,	14
Freshmen,	40

Preparatory Department.

Class A,	63
Class B,	47
Class C,	80
Total,	260

STUDENTS FROM

Pennsylvania,	168
New York,	31
New Jersey,	26
Maryland,	12
Delaware,	7
Washington, D. C.,	4
Virginia,	3
Ohio,	3
Maine,	3
Indiana,	2
Louisiana,	1
Total,	260

SECTION I.

ADMISSION.

Applicants for admission to the Preparatory Department must be at least thirteen years old.

No student shall be admitted without satisfactory testimonials of good moral character; and students coming from another college or school shall present certificates of honorable dismission from the institution left.

The use of tobacco in any form being strictly prohibited, those addicted to its use, if not prepared to renounce it entirely, should not apply for admission.

Students are not considered as regular members of the College until, after a residence of at least four months, they have been admitted to matriculation on satisfactory evidence of good moral character. Before this they are students on probation.

Candidates for admission to Class C will be examined in the elements of English Grammar, Reading, Spelling, Modern Geography, and in Arithmetic through Decimal Fractions.

Candidates for admission to the advanced classes of the Preparatory Department will be examined also in the studies of the classes below that which they propose to enter.

All candidates for admission to the Freshman Class will be examined in the ordinary English branches, in English History, in Algebra as far as Quadratic Equations, and in the first five books of Davies' Legendre's Geometry.

In addition to the above examination, candidates will be examined as follows:

For the Classical Course,

In Harkness' Latin Grammar, Harkness' Reader and Cæsar de Bello Gallico; also in Magill's French Grammar and Introductory French Reader:

For the Scientific Course,

In Natural Philosophy and in the Elements of Geometrical Drawing; also in the French studies required for the classical course.

For advanced standing students will be examined in the studies already pursued by the class for which they offer themselves; but in this, as in all the examinations, they will be tested rather by their knowledge of the *subjects* than of any particular *text-books*.

Students not candidates for degrees are examined only so far as to ascertain their ability to pursue the studies of the class or classes which they propose to enter.

Applications for admission for the next scholastic year should be made, as early as possible, by letter to the President, *accompanied in all cases by the required testimonials of good moral character.*

Candidates must present themselves for examination at 2 o'clock P.M., on Third-day, the 2d of the Ninth month, 1873.

SECTION II.

DEGREES.

The Degree of A. B. is conferred upon students who complete the Classical Course, and pass the examinations in the same.

The Degree of B. S. is conferred upon students who complete the Scientific Course, and pass the examinations in the same.

The Degree of C. E. is conferred upon students who complete the course of Civil Engineering, and pass the examinations in the same.

The Degree of A. M., or of M. S., will be given, three years after graduation, to those students who, after receiving the degree of A. B., or of B. S., shall have engaged, during that period, in professional or in literary and scientific studies.

Every facility is offered to those who wish to become proficient in SPECIAL DEPARTMENTS. Students not candidates for degrees may pursue their studies for a single year, or for a longer period, in any classes which they are qualified to enter; and they shall be entitled to certificates of proficiency in any department in which they shall have completed the required studies, and passed a satisfactory examination.

SECTION III.

DEPARTMENTS OF STUDY.

MATHEMATICS.

CLASS C. Brooks's Normal Written and Brooks's Normal Mental Arithmetic, through Percentage.

CLASS B. Brooks's Normal Written and Brooks's Normal Mental Arithmetic, finished: Brooks's Algebra, begun.

CLASS A. Brooks's Algebra, to Quadratic Equations; Davies' Legendre's Geometry, five books.

FRESHMAN CLASS. Alsop's Algebra, through Quadratic Equations; Davies' Legendre's Geometry, 6th Book; Chauvenet's Plane Trigonometry; Gillespie's Surveying.

SOPHOMORE CLASS. Davies' Legendre's Geometry, 7th, 8th, and 9th Books; Chauvenet's Spherical Trigonometry; Olney's Analytical Geometry.

JUNIOR CLASS. Olney's Differential and Integral Calculus, with applications to Analytical Geometry.

APPLIED MATHEMATICS AND PHYSICS.

In this Department are taught the following subjects in their relation to CIVIL AND MECHANICAL ENGINEERING:—

CLASS A. Introductory Physics. Elements of Industrial Drawing.

FRESHMAN CLASS. General Physics. Construction of Plane Problems in Geometry. Projection Drawing.

SOPHOMORE CLASS. *Descriptive Geometry.* Orthographic Projections, Spherical Projections, Isometrical Projections; Shades, Shadows, and Perspective, with Drawing.

JUNIOR CLASS. *Analytical Mechanics* of Solids and Fluids. *Geodesy*:—Theory, Adjustment and Use of Engineering Field Instruments; Farm Surveying; Levelling; Topographical, Triangular, and Hydrographical Surveying. *Physics*:—Acoustics, Optics, Heat, Electricity. *Astronomy*:—Determination of Time, Latitude and Longitude. *Drawing*;—Topographical, Structural, Machine. Principles of Mechanism. Visits to, and Sketches of, special Machinery and Structures.

SENIOR CLASS. *Road Engineering*:—Theory and Practice. *Physical Mechanics*:—Friction and other Resistances; Stress and Strength of Materials; Practical Hydraulics; Water Engineering; Practical Pneumatics. *Machines*:—General Theory of; Theory of Prime Movers, Steam Engines, Water Wheels, Windmills. *Constructions*:—Stability of Structures; Building Materials; Foundations and Superstructures; Bridge Engineering. *Drawing*:—Plans, Profiles and Sections of Road Surveys; Machines and Structures. *Physics*:—Thermo-Dynamics, Electro-Dynamics.

CHEMISTRY.

SOPHOMORE CLASS. Elementary Chemistry; Chemical Physics; Manipulations.

JUNIOR CLASS. Qualitative Analysis; Blowpipe Analysis; Spectrum Analysis; Quantitative Analysis.

SENIOR CLASS. Quantitative Analysis (continued); Special Applications; Assaying.

HISTORY.

This course includes Political and Physical Geography in the Preparatory School, and History and Geography are combined throughout the entire course.

CLASS B. Barnes' History of the United States. Anderson's History of England.

CLASS A. Anderson's General History.

FRESHMAN CLASS. Liddell's History of Rome. Student's Gibbon.

SOPHOMORE CLASS. Smith's History of Greece. History of Rome, reviewed.

JUNIOR CLASS. Medieval History. Student's Gibbon. Modern History of Continental Europe.

SENIOR CLASS. Constitution of the United States. Guizot's History of Civilization.

NATURAL HISTORY.

This course is taught by a series of one hundred lectures, extending through the Freshman and Sophomore years, which all the students of these classes are required to attend. These lectures are open to all the members of the College and the Preparatory School. The course includes Zoology, Comparative Anatomy, Physiology, Mineralogy and Geology. All students attending these lectures are subjected to oral examinations once a week, and written examinations once a month.

ENGLISH LANGUAGE AND LITERATURE.

This course, in addition to the studies below named, includes Spelling and English Grammar in the Preparatory School.

Freshman Class. Modern Literature. Rhetoric and Elocution.

Sophomore Class. Study of Modern and Mediæval Literature. Rhetoric. Essays and Declamations.

Junior Class. English Classics. Rhetoric. Essays and Original Declamations.

Senior Class. Study of the English Language and Literature. Essays and Original Declamations.

The following text and reference books are used in this department, viz :

Literature. Shaw's Manual ; Cleveland's Series ; Taine's History of English Literature ; Chambers' Encyclopedia ; Dr. Thomas's Biographical Dictionary ; Allibone's Dictionary of Authors ; Marsh's Lectures on the English Language.

Rhetoric. Blair's ; Hart's ; Quackenbos's ; Campbell's Philosophy of Rhetoric ; Whateley's Elements ; Whitney's Language and the Study of Language ; Abbott's Lessons in English.

ELOCUTION.

Class C. Phonetic Spelling. Enunciation of Words. Monroe's Fifth Reader. Declamations.

Class B. Phonetic Spelling. Enunciation of Words. Hillard's Fifth Reader. Declamations.

Class A. Hillard's Sixth Reader. Murdock and Russel's Vocal Culture. Declamations.

Freshman Class. Murdock and Russel's Vocal Culture. Coates's Speaker. Selections from Classical English Authors. Declamations.

Sophomore Class. Selections from Classical English Authors. Declamations.

Junior Class. Declamations, original and selected.

Senior Class. Declamations, original and selected.

N. B.—This course is required of all the students in the College and the Preparatory School.

LATIN.

Class B. Harkness' Grammar and Reader. Cæsar begun.

Class A. Harkness' Grammar. Cæsar. Harkness' Latin Prose Composition.

Freshman Class. Harkness' Grammar. Harkness' Prose Composition. Virgil.

Sophomore Class. Harkness' Grammar and Harkness' Prose Composition. Cicero's Orations. Livy.

Junior Class. Horace: Odes. Cicero: De Claris Oratoribus, De Senectute and De Amicitia. Zumpt's Grammar.

Senior Class. Tacitus: Agricola and Germania. Juvenal. Zumpt's Grammar.

The following works of reference are used in this Department, viz.: Kiepert's Atlas Antiquus; Long's and Findlay's Classical Atlases; Baird's Classical Manual; Ramsay's Roman Antiquities; Anthon's Greek and Roman Antiquities; Smith's Classical Dictionary.

GREEK.

Freshman Class. Hadley's Grammar. Xenophon's Anabasis. Arnold's Greek Prose Composition.

Sophomore Class. Hadley's Grammar. Xenophon's Anabasis. Homer. Arnold's Prose Composition.

Junior Class. Selections from Greek Literature. Grammar and Composition. Goodwin's Greek Moods and Tenses.

Senior Class. Selections from Greek Literature. Grammar and Composition. Goodwin's Greek Moods and Tenses.

FRENCH.

Class C. Chouquet's First Lessons.

Class B. Chouquet's First Lessons. Magill's Grammar, Etymology.

Class A. Magill's Grammar, Syntax. Magill's Introductory Reader.

Freshman Class. Magill's Grammar, reviewed. Magill's Prose and Poetry. Duchesse d'Orléans. Télémaque.

Sophomore Class. Magill's Grammar, reviewed. Dumas' Napoléon. About's Roi des Montagnes.

Junior Class. Magill's Grammar, reviewed. Abrégé de la Grammaire de Noël et Chapsal. Histoire de France, par L. Fleury. Compositions. Notes sur l'Angleterre par Taine.

Senior Class. Grammaire de Noël et Chapsal. Histoire de France, par L. Fleury. l'Allemagne, par de Staël. Littérature Française, par Demogeot. Grèce Contemporaine, par About. Compositions.

GERMAN.

Freshman Class. Otto's Beginning German. Adler's German Reader. Otto's Conversation Grammar.

Sophomore Class. Otto's Conversation Grammar. Hauff: Lichtenstein. Eichendorff: Aus dem Leben eines Taugenichts.

Junior Class. Schiller: Wilhelm Tell. Lessing: Minna von Barnhelm, Emilia Galotti. Exercises in writing German. Whitney's Grammar.

Senior Class. Schiller: Maria Stuart, Die Jungfrau von Orleans, Geschichte des Abfalls der vereinigten Niederlande. Goethe: Egmont. Faust. Exercises in writing German. History of German Literature (Lectures).

Penmanship is taught on the Spencerian system to all the classes of the Preparatory School, and an advanced course, in business penmanship, is given to those students of the College classes who desire it. Instruction is also given in Free-hand Drawing, in Telegraphy, and in Short-hand Reporting upon Andrew J. Graham's Steno-Phonographic System.

REQUIRED AND ELECTIVE STUDIES.

Students are required to select a sufficient number of the Elective Studies to make not less than *fifteen* nor more than *twenty* exercises per week, exclusive of Reading and Speaking, Writing, Natural History, Telegraphy, Phonography, Elements of Geometrical Drawing and Free-hand Drawing.

Elective Studies are to be selected at the beginning of the year, under the advice and direction of the Faculty, and of Parents and Guardians, whose attention is invited to this synopsis. The studies thus chosen, unless completed, are not to be changed or dropped during the year, except by vote of the Faculty. The required studies of any course are among the Elective Studies for students of other courses.

The following is a synoptical view of the Required and Elective Studies in the various classes of the College and the Preparatory School. The figure following each indicates the number of exercises per week in that study.

COURSES OF STUDY.

CLASS C.

REQUIRED STUDIES. Reading and Speaking, 3; Composition, 1; Mathematics, 4; English Grammar, 4; Geography, 4; Spelling, 2; Writing, 3.

ELECTIVE STUDIES. Latin, 4; French, 4; Natural History, 1; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

CLASS B.

REQUIRED STUDIES, CLASSICAL COURSE. Reading and Speaking, 2; Composition, 1; Mathematics, 3; Latin, 4; French, 4; Geography, 2; History, 4; Spelling, 2; Writing, 2.

REQUIRED STUDIES, SCIENTIFIC COURSE. Latin, or English Grammar, 4; otherwise the same as the Classical Course.

ELECTIVE STUDIES. Natural History, 1; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

CLASS A.

REQUIRED STUDIES, CLASSICAL COURSE. Reading and Speaking, 2; Composition, 1; Mathematics, 4; Latin, 4; French, 3; Physics, 2; Physiology, 1; History and Geography, 3; Spelling, 2; Writing, 2.

REQUIRED STUDIES, SCIENTIFIC COURSE. Latin, or English Grammar, 4; Elements of Geometrical Drawing, 2; otherwise the same as the Classical Course.

ELECTIVE STUDIES. Natural History, 1; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

FRESHMAN CLASS.

REQUIRED STUDIES, CLASSICAL COURSE. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; Physics, 3; Latin, 4. German, 3; History, 3; Natural History, 1.

REQUIRED STUDIES, SCIENTIFIC COURSE. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; Physics, 3; Projection Drawing, 4; German, 3; History, 3; Natural History, 1.

ELECTIVE STUDIES. English Literature, 2; French, 3; Greek, 3; Writing, 2; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

SOPHOMORE CLASS.

Required Studies, Classical Course. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; Chemistry, 2; Latin, 4; German, 3; English Literature, 2; Natural History, 1.

Required Studies, Scientific Course. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; Chemistry, 4; Descriptive Geometry, 4; German, 3; English Literature, 2; Natural History, 1.

Elective Studies. History, 3; French, 3; Greek, 4; Writing, 2; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

JUNIOR CLASS.

Required Studies, Classical Course. Rhetoric and Composition, 1; Elocution, 1; French, 4; Political Economy, 1.

Required Studies, Scientific Course. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; French, 4; Political Economy, 1; Physics, 4; Chemistry, 4.

Required Studies, Engineering Course. Rhetoric and Composition, 1; Elocution, 1; Mathematics, 4; Political Economy, 1; Applied Mathematics, 4; Physics, 4; Topographical Drawing, 2; Qualitative Analysis, 3.

Elective Studies. History, 2; Natural History, 1; English Literature, 2; Latin, 4; German, 4; Greek, 4; Writing, 2; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

SENIOR CLASS.

Required Studies, Classical Course. Rhetoric and Composition, 1; Elocution, 1; Mental and Moral Philosophy, 1; History, 2.

Required Studies, Scientific Course. Rhetoric and Composition, 1; Elocution, 1; Mental and Moral Philosophy, 1; Physics, 4; Chemistry, 10.

Required Studies, Engineering Course. Rhetoric and Composition, 1; Elocution, 1; Mental and Moral Philosophy, 1; Engineering, 4; Physics, 4; Machine and Structure Drawing, 4.

Elective Studies. Natural History, 1; English Literature, 2; Latin, 4; French, 4; German, 4; Greek, 4; Writing, 2; Telegraphy, 3; Phonography, 3; Free-hand Drawing, 2.

DAILY PROGRAMME OF EXERCISES.

COLLEGE CLASSES.

The letters indicate the class-room in which the recitation is held.

		Senior Class.	Junior Class.	Sophomore Class.	Freshman Class.
Second Day.	8.00— 8.45	Mathematics, M.	Latin, F, or Physiol., Lab.	Physiol., Lab., or History, Lyc.	Physiology, Lab. or German, N.
	8.45— 9.30	French, F, or Chem., Lab.	Chem., Lab., or German, N.	Mathematics, M.	History, Lyc.
	10.00—10.45	Latin, Off., or App. Math., R.	French, F, or App. Math., R.	German, N, or Chem., Lab.	Mathematics, [*a*] M.
	10.45—11.30	Literature, L.	Literature, L.	Descriptive Geom., R.	Projection Drawing, R.
	2.00— 2.45	Physics, R.	Physics, R.	French, F, or Greek, N.	Math., [*b*] M., or Greek, N.
	2.45— 3.30	Greek, N, or Drawing, R.	Drawing, R.	Latin, F, or Physics, Mus.	Latin, H, or Physics, Mus.
	3.30— 4.15	German, N.	Mathematics, M.	Rhet. and Comp., L.	French, F, or Chem., Lab.
Third Day.	8.00— 8.45	Mathematics, M.	Latin, F, or Physiol., Lab.	Physiol., Lab., or Literature, L.	Physiol., Lab., or Literature, L.
	8.45— 9.30	French, F, or Chem., Lab.	Chem. Lab., or German, N.	Mathematics, M.	Elocution, Lyc.
	10.00—10.45	App. Math., R.	App. Math., R, or French, F.	German, N, or Chem., Lab.	Mathematics, [*a*] M.
	10.45—11.30	Elocution, K and O.	History, Lyc.	Descriptive Geom., R.	Projection Drawing, R.
	2.00— 2.45	Physics, R	Physics, R.	French, F, or Greek, N.	Rhet. and Comp., G, or Greek, N.
	2.45— 3.30	Greek, N, or Drawing, R.	Drawing, R.	Latin, F, or Physics, Mus.	Latin, H, or Physics, Mus.
	3.30— 4.15	German, N.	Mathematics, M.	Elocution, K.	French, F, or Chem., Lab.
4th Day.	8.00— 8.45	Rhet. and Comp., L.	Rhet. and Comp., L.	History, Lyc.	German, N.
	8.45— 9.30	Latin, Off.	Elocution, K and O.		History, Lyc.
	10.00—11.30	Nat. Hist., Mus	Nat. Hist., Mus.	Nat. Hist., Mus.	Nat. Hist., Mus.
Fifth Day.	8.00— 8.45	Mathematics, M.	Latin, F, or Physiol., Lab.	Physiol., Lab., or Literature, L.	Physiol., Lab., or Literature, L.
	8.45— 9.30	French, F, or Chem., Lab.	Chem., Lab., or German, N.	Mathematics, M.	Elocution, Lyc.
	10.00—10.45	Latin, Off., or App. Math., R.	App. Math., R, or French, F.	German, N, or Chem., Lab.	Mathematics, [*a*] M.
	10.45—11.30	Literature, L.	Literature, L.	Descriptive Geom., R.	Projection Drawing, R.
	2.00— 2.45	Physics, R.	Physics, R.	French, F, or Greek, N.	Math., [*b*] M, or Greek, N.
	2.45— 3.30	Greek, N, or Drawing, R.	Drawing, R.	Latin, F, or Physics, Mus.	Latin, H, or Physics, Mus.
	3.30— 4.15	German, N.	Mathematics, M.	Rhet. and Comp., L.	French, F, or Chem., Lab.
Sixth Day.	8.00— 8.45	Mathematics, M.	Latin, F., or Physiol., Lab.	Physiology, Lab.	Physiology, Lab., or German, N.
	8.45— 9.30	French, F, or Chem., Lab.	Chem., Lab., or German, N.	Mathematics, M.	History, Lyc.
	10.00—10.45	App. Math., R.	App. Math., R, or French, F.	German, N, or Chem., Lab.	Mathematics, [*a*] M.
	10.45—11.30	Elocution, K and O.	History, Lyc.	Descriptive Geom., R.	Projection Drawing, R.
	2.00— 2.45	Physics, R.	Physics, R.	French, F, or Greek, N.	Greek, N.
	2.45— 3.30	Greek, N, or Drawing, R.	Drawing, R.	Latin, F, or Physics, Mus.	Latin, H, or Physics, Mus.
	3.30— 4.15	German N.	Mathematics, M.	Elocution, K.	French, F, or Chem., Lab.
7th Day.	8.00— 8.45	Latin, Off.	Rhet. and Comp., L.	History, Lyc.	German, N.
	8.45— 9.30		Elocution, K and O.		Rhet. and Comp., G.
	9.30—10.15	Rhet. and Comp., L.	History, Lyc.		Mathematics, [*b*] M.

The exercises in Free hand Drawing are held in room O, on Second, Third and Fifth day afternoons.

DAILY PROGRAMME OF EXERCISES.

PREPARATORY SCHOOL.

The letters indicate the class-room in which the recitation is held.

		Class A 1.	Class A 2.	Class B 1.	Class B 2.
Second Day.	8.00— 8.45	Latin, I, or Drawing, R.	Latin, I. or Drawing, R.	Writing, D	
	8.45— 9.30	Eng. Gram., H.	Eng. Gram., H.	French, G, or Drawing, R.	French, G, or Drawing, R.
	10.00—10.45	French, G, or Physics, Mus.	French, G, or Physics, Mus.	History, Lyc.	History, Lyc.
	10.45—11.30	Mathematics, (*a*) M.	Writing, D.	Physics, Mus., or Latin, H.	Latin, H, or Physics, Mus.
	2.00— 2.45	Spelling, Lyc.	Spelling, Lyc.	Spelling, Lyc.	Spelling, Lyc.
	2.45— 3.30	Physiol., Lab., or Math., (*b*) M.	Physiol., Lab., or Math., (*b*) M.	Reading, I.	Writing, D.
	3.30— 4.15	History, Lyc.	History, Lyc.	Eng. Gram., H.	Eng. Gram., H.
Third Day.	8.00— 8.15	Latin, I, or Drawing, R.	Latin, I, or Drawing, R.		Geography, J.
	8.15— 9.30	Eng. Gram., H.	Eng. Gram., H.	French, G, or Drawing, R.	French, G, or Drawing, R
	10.00—10.45	French, G, or Physics, Mus.	French, G, or Physics, Mus.	History, Lyc.	History, Lyc.
	10.45—11.30	Physiol., Lab., or Math., (*b*) M.	Physiol., Lab., or Math., (*b*) M.	Physics, Mus., or Latin, H.	Latin, H, or Physics, Mus.
	2.00— 2.45	Mathematics, (*a*) M.	Elocution, K.	Arithmetic, E.	Reading, I.
	2.45— 3.30	Writing, D.	Mathematics, (*a*) M.	Geography, J.	Arithmetic, E
	3.30— 4.15	History, Lyc	History, Lyc.	Eng. Gram., H.	Eng. Gram., H.
4th Day.	8.00— 8.45	Elocution, K.	Rhet. and Comp., I.	Arithmetic, E.	Geography, J.
	8.45— 9.30	Rhet. and Comp., I.	Mathematics, (*a*) M.	Geography, J.	Arithmetic, E.
	10.00—11.30	Natural History, Mus.	Nat. Hist., Mus.	Nat. Hist., Mus.	Nat. History, Mus.
Fifth Day.	8.00— 8.45	Latin, I, or Drawing, R.	Latin, I, or Drawing, R.	Writing, D.	
	8.45— 9.30	Eng. Gram., H.	Eng. Gram., H.	French, G, or Drawing, R.	French, G, or Drawing, R.
	10.00—10.45	French, G, or Physics, Mus.	French, G, or Physics, Mus.		Writing, D.
	10.45—11.30	Mathematics, (*a*) M.	Writing, D.	Latin, H, or Physics, Mus.	Latin, H, or Physics, Mus.
	2.00— 2.45	Spelling, Lyc.	Spelling, Lyc.	Spelling, Lyc.	Spelling, Lyc.
	2.45— 3.30	Physiol., Lab., or Math., (*b*) M.	Physiol., Lab., or Math., (*a*) M.	Reading, I.	Geography, J.
	3.30— 4.15		Elocution, K.	Eng. Gram., H.	Eng. Gram., H.
Sixth Day.	8.00— 8.45	Latin, I, or Drawing, R.	Latin, I, or Drawing, R.	Writing, D.	
	8.45— 9.30	Eng. Gram., H.	Eng. Gram., H.	French, G, or Drawing, R.	French, G, or Drawing, R.
	10.00—10.45	French, G, or Physics, Mus.	French, G, or Physics, Mus.	History, Lyc.	History, Lyc.
	10.45—11.30	Mathematics, (*a*) M.	Writing, D.	Latin, H, or Physics, Mus.	Latin, H, or Physics, Mus
	2.00— 2.45	Writing, D.	Mathematics, (*a*) M.	Arithmetic, E.	Reading, I.
	2.45— 3.30	Physiol., Lab., or Math., (*b*) M.	Physiol., Lab., or Math., (*b*) M.	Composition, I.	Arithmetic, E.
	3.30— 4.15	History, Lyc.	History, Lyc.	Eng. Gram., H.	Eng. Gram., H.
7th Day.	8.00— 8.45	Elocution, K.	Rhet. and Comp., I.	Arithmetic, E.	Writing, D.
	8.45— 9.30	Rhet. and Comp., I.	Mathematics, (*a*) M.		Arithmetic, E.
	9.30—10.15	Writing, D.		Geography, J.	Composition, I.

		Class C 1.	Class C 2.	Class C 3.
Second Day.	8.00— 8.45	Arithmetic, E.	Geography, J.	History, G.,
	8.45— 9.30		Reading and Spelling, J.	Arithmetic E.
	10.00—10.45	Reading and Spelling, I.	Eng. Gram., H.	Eng. Gram., J.
	10.45—11.30	History, G.		Reading and Spelling, E.
	2.00— 2.45	Eng. Gram., H.	History, G.	Geography, J.
	2.45— 3.30	French, G, or Latin, L.	French, G, or Latin, L.	French, G, or Latin, L.
	3.30— 4.15	Geography, J.	Arithmetic, E.	
Third Day.	8.00— 8.45	Arithmetic, E.	Writing, D.	History, G.
	8.45— 9.30		Reading and Spelling, J.	
	10.00—10.45	Writing, D.	Eng. Gram., H.	Eng. Gram., J.
	10.45—11.30	Reading and Spelling, I.	Composition, G.	Arithmetic, E.
	2.00— 2.45			Geography, J.
	2.45— 3.30	French, G, or Latin, L.	French, G, or Latin, L.	French, G, or Latin, L.
	3.30— 4.15	Geography, J.	Arithmetic, E.	Writing, D.
4th Day.	8.00— 8.45	Eng. Gram., H.	History, G	Writing, D.
	8.45— 9.30	History, G.	Writing, D.	
	10.00—11.30	Nat. History, Mus.	Nat. Hist., Mus.	Nat. Hist., Mus.
Fifth Day.	8.00— 8.45	Arithmetic, E.	Geography, J.	
	8.45— 9.30		Reading and Spelling, J.	Arithmetic, E.
	10.00—10.45	Reading and Spelling, I.	Eng. Gram., H.	Eng. Gram., J.
	10.45—11.30	Nat. Hist., Lyc.	Nat. Hist., Lyc.	Nat. Hist., Lyc.
	2.00— 2.45	Eng. Gram., H.	Writing, D.	Reading and Spelling, E.
	2.45— 3.30	French, G, or Latin, L.	French, G, or Latin, L.	French, G, or Latin, L.
	3.30— 4.15		Arithmetic, E.	Composition, I.
Sixth Day.	8.00— 8.45	Arithmetic, E.		History, G.
	8.45— 9.30		Reading and Spelling, J.	Arithmetic, E.
	10.00—10.45	Writing, D.	Eng. Gram., H.	Eng. Gram., J.
	10.45—11.30	Reading and Spelling, I.	History, G.	Reading and Spelling, E.
	2.00— 2.45	French, G, or Latin, L.	French, G, or Latin, L.	French, G, or Latin, L.
	2.45— 3.30	Composition, L.		
	3.30— 4.15	Geography, J.	Arithmetic, E.	Writing, D.
7th Day.	8.00— 8.45	Eng. Gram., H.	Geography, J.	
	8.45— 9.30	Writing, D.		Geography, J.
	9.30—10.15	History, G.		Reading and Spelling, E.

The exercises in Free hand Drawing are held in room O, on Second, Third and Fifth day afternoons.

SECTION IV.

GENERAL INFORMATION.

SITUATION.

Swarthmore College is situated on the West Chester and Philadelphia Railroad, ten miles from Philadelphia. It is accessible by cars, which leave the depot at Thirty-first and Chestnut Sts., West Philadelphia, ten times daily.

POST-OFFICE ADDRESS.

The Post-Office address is SWARTHMORE, DELAWARE CO., PA. Express packages may be sent to this address, or, if small, may be left in care of William Dorsey, 923 Market street, Philadelphia.

LIBRARIES.

The Libraries of the College now contain nearly two thousand volumes. The General Library is accessible to all the students, according to the rules established by the Faculty, and is open twice a week during term time for the delivery of reading books, and daily for the delivery of books of reference needed by the students in the various departments. It is open every evening to teachers and members of the household.

The Anson Lapham Repository contains a small collection of Friends' books, which are at all times accessible to teachers, students and members of the household.

PHYSICAL CULTURE.

Regular daily exercise in the open air is required of all the students, for which the extensive grounds connected with the College afford ample facilities. The gymnasium, which is well supplied with suitable apparatus, is open every day for the voluntary exercise of boys and girls in separate classes. They also receive regular instruction from a teacher of Gymnastics. These exercises, which consist almost entirely of the so-called *light gymnastics*, are re-

quired of all the students, unless specially excused at the request of parents or guardians, but no effort is required of any student, which cannot be safely and profitably undertaken by any one in good health. Girls must be provided with dresses suitable for these exercises.

RELIGIOUS EXERCISES.

While care is taken to inculcate the doctrine that religion is a matter of practical daily life, and is not confined to the observance of set forms or the promulgation of religious tenets, the regular assembling for religious purposes is carefully observed. On First-day morning a religious meeting is held, attended by students, teachers and members of the household, and occasionally by visiting Friends. The exercises of each day are terminated by a general meeting for reading selected portions of Scripture, and other suitable books, followed by a period of silence before retiring for the night.

VISITING.

Parents and Guardians are especially requested not to visit their children at the College on the First day of the week, nor to ask permission for them to leave the College during term time, unless circumstances render it absolutely necessary.

Students may be visited, on week days, by parents or guardians, or by near relatives or others approved by parents or guardians; but general visiting is discouraged. *Students must not be interrupted in their studies or recitations at any time.*

All persons who are interested in Education, and who are desirous of examining the methods of instruction and discipline at Swarthmore, will always be welcome, and should, when convenient, visit the Institution between the hours of 8 and 12 A. M.

TERMS AND VACATIONS.

Commencement Day is the third Fourth-day of the Sixth month. Students are not admitted for a shorter period than the current Scholastic year, but may enter at any time, if prepared to join existing classes. The Scholastic year commences eleven weeks thereafter, and continues forty-one weeks.

Besides the vacation of eleven weeks in summer, there will be a vacation of one week at Christmas.

OUTFIT.

Although no form of dress is prescribed for either sex, such simple attire as is appropriate to school life is earnestly recommended. Ear-rings, bracelets, necklaces and elaborately trimmed dresses are prohibited.

Students should be supplied with six towels, six napkins, two clothes bags, a wrapper, slippers, an umbrella, and the requisite toilet articles. Girls must also be provided with gymnasium dresses. Every article must be marked with the full name of the owner.

EXPENSES.

For RESIDENT STUDENTS the price of board and tuition, from Ninth month 4th, 1873, will be $350 per year, of which $200 will be payable in advance, and $150 on the first of the Second month.

For DAY SCHOLARS the price is $200 per year, of which one half is payable in advance, and the remainder on the first of the Second month. The day scholars dine with the resident students.

A proportionate deduction is made to those students who enter after the opening of the Scholastic year.

Pupils buy their own stationery, and those who pursue the study of Practical Chemistry pay for the chemicals which they use in the Laboratory.

Books are furnished for the use of students, without expense, but they are held responsible for the abuse of these as well as of all other College property.

THERE ARE NO EXTRA CHARGES.

PAYMENTS.

Payments are to be made by check or draft to the order of William Canby Biddle, Treasurer, 513 Commerce Street, Philadelphia.

MINUTES

OF THE

NINTH ANNUAL MEETING

OF THE

STOCKHOLDERS

OF

SWARTHMORE COLLEGE,

HELD TWELFTH MO., THIRD, 1872.

PHILADELPHIA:
MERRIHEW & SON, BOOK AND JOB PRINTERS,
135 North Third Street.
1872.

MINUTES.

At the Ninth Annual Meeting of the Stockholders of Swarthmore College, held at Race Street Meeting House, Philadelphia, Twelfth month 3d, 1872, according to public notice given, as required by the Charter:

The Minutes of the last Annual Meeting were read and approved.

The Reports of the Board of Managers and of the Treasurer were read, approved, and referred to the incoming Board for publication.

The terms of office of the following Managers expired at this time:

Edward Hoopes,	Rachel T. Jackson,
William H. Macy,	Letitia S. Cadwallader,
Ellwood Burdsall,	Caroline Underhill,
B. Rush Roberts,	Elizabeth S. Worth.

Hugh McIlvain, William Dorsey, Henry C. Hallowell, Daniel Underhill, Margaret G. Corlies, Lydia Gillingham, Anna M. Ferris, Catharine H. Truman, Rachel M. Biddle, George W. Hancock, and Harriet E. Stockley were appointed to nominate the officers of the Corporation required by the Charter, *i. e.*, two Clerks, a Treasurer, and eight Friends to fill the vacancies in the Board of Managers.

Ellwood Burdsall, Clement Biddle and B. Rush Roberts were appointed Inspectors of Election.

The Nominating Committee made the following report:

Clerks,

Clement M. Biddle, Martha Dodgson.

Managers for four years,

Edward Hoopes,	Rachel T. Jackson,
William H. Macy,	Rachel M. Biddle,
Ellwood Burdsall,	Caroline Underhill,
B. Rush Roberts,	Elizabeth S. Worth.

Treasurer,

William Canby Biddle.

An election by ballot was held, and the Inspectors reported the above officers unanimously elected.

A proposition was received from the Board of Managers to change By-Law XII, to read as follows:—

"These By-Laws may be altered or amended at any meeting of the Board next preceding the annual meeting, notice of such change having been given at a previous stated meeting."

The proposition was approved, and the By-Law, as changed, was adopted.

Information was received from the Board of Managers that they had elected Mary T. Longstreth as Manager, to fill the place of Elizabeth B. Smith, resigned.

The incoming Board of Managers were requested to give a more general notice, hereafter, of the Annual Meeting of the Stockholders.

Then adjourned.

CLEMENT M. BIDDLE,
ANNIE SHOEMAKER, } *Clerks.*

MANAGERS' REPORT.

Another year has been added to the brief history of Swarthmore College, and it becomes, once more, the duty of the Managers to present to the Stockholders their Annual Report.

It is eminently fitting that allusion should be made, in the opening of this report, to the recent death of the first President of the College, Edward Parrish.* One of the pioneers engaged in enlisting the minds of Friends in the great work of founding a College, he was a most earnest and indefatigable laborer in the cause, and it was largely owing to his personal exertions that success so early crowned our efforts. Very many of the Stockholders will remember that their interest in Swarthmore was first awakened by his voice

*Edward Parrish died Ninth month 9th, 1872, at Fort Sill, Indian Territory. He was selected by the President to represent the Government in an effort to make pacific arrangements between the Indians and the United States. His health was not robust when he undertook the journey, and he died while devoted to what promised to be a successful and useful service.

and pen. By conversation in that wide circle of Friends in which he moved, and where he was so much beloved; by extensive correspondence; by public addresses, and by his work, entitled "Education in the Society of Friends," he did much to arouse attention to the importance of establishing among us an institution for higher culture; culture not of the mind alone, but of the heart as well; and thus, in connection with his untiring efforts to secure the means necessary for carrying out this design, he performed a labor destined to have a lasting influence for good upon our Religious Society, and upon the community at large.

During the past year, as heretofore, the Managers, either by their direct action or through their several committees having charge of the various departments, have exercised a guarded care over the interests of the College, and are enabled to report, from personal observation, gratifying evidences of advancement. As the College is entering upon its fourth year, having opened with a Freshman class only, in the collegiate department, three years ago, it now numbers among its students, for the first time, a graduating class. It is a gratifying circumstance that the six members of the first Senior class constituted the entire Junior class at the close of last year, all of them having returned to graduate. The whole number of students in the collegiate department for the present year is seventy, of whom six belong to the Senior, ten to the Junior, fourteen to the Sophomore, and forty to the Freshman class. The Preparatory School numbers one hundred and eighty-nine students, divided, as heretofore, into three classes, A, B and C. It is proposed to admit no students to the Preparatory School hereafter under the age of thirteen years. The boys' department has been full since the opening of the present year, and a number of applications have been declined, for the present, for want of room.

The object which the College has had in view from the beginning has been to furnish a thorough Classical and an equally thorough Scientific education, in separate courses. This has not been accomplished thus far for want of the proper facilities for making this division, but it will now be carried into effect. Students will, therefore, have the opportunity to elect the Classical or the Scientific Course, for completing either of which the usual degree will be given. In connection with the Scientific Course, coinciding with it through the Sophomore class, and branching off in the Junior year, a course in Civil Engineering is also established. Provision is likewise made for those who do not expect to graduate in any one of the three

regular courses, to enable them to receive what instruction they desire in special departments. The practical working details of these various courses will be fully explained in the new Catalogue published with this report, to which the attention of the Stockholders is especially invited. It is hoped and believed that the wants and expectations of all the friends of the College will be fully met by the courses therein presented.

For the full development of the improvements proposed various changes have been made in the corps of professors and instructors employed. The Principal has been appointed to the Presidency of the College since the last report, and also to the chair of Mental and Moral Philosophy. The professorship of Latin and French, formerly held by him, has been conferred upon a graduate of the University of France, who has had large experience as an instructor, both abroad and in this country. In this department Latin will be required of the Classical Students only, while French will be required of both Classical and Scientific Students in classes A and B of the Preparatory School, and in the Junior class of the Collegiate Course.

The professorship of Greek and German has been conferred upon a graduate and former tutor of Harvard College, who has recently returned from a two years residence in Germany. This department has been thoroughly reorganized, and the German language will be required hereafter of all students in the Freshman and Sophomore classes, who are pursuing either a Classical or Scientific Course. Greek will continue optional in both departments, as heretofore.

The department of Chemistry has been placed under the charge of a graduate of the Sheffield Scientific School, of Yale College, and late assistant in the Laboratory of the same, who brings to his chosen profession a thorough knowledge of the science in its latest developments: and provision will at once be made for a complete scientific training in this increasingly important branch of study. To this end not less than five hundred dollars should be expended during the coming year to supply additional apparatus, and much needed books of reference. In the arrangement of study proposed, the students in both the Classical and the Scientific Courses will be required to pursue the study of Chemistry during their Sophomore year, and this will also be required of the students in the Scientific department during the remaining two years of their course.

The department of Civil Engineering is under the charge of the

Professor of Applied Mathematics and Physics, a graduate of the Rensselaer Polytechnic Institute of Troy, N. Y., who has been, for the past three years, engaged in organizing and directing this department in the University of Minnesota. Through the kind liberality of the friends of the College, a large room in the fourth story of the central building, adjoining the Museum, is being fitted up as a Physical Laboratory, exclusively for the use of this department. As fast as the means contributed will allow, it will be furnished with suitable models and apparatus, and tables of the most approved modern construction, for draughting purposes. Five hundred dollars will be needed for this purpose during the coming year.

The department of Natural History has been continued, as before, under the care of our non-resident Professor, Dr. Joseph Leidy, who has had charge of the arrangement of the Cabinet, and who has lectured once a week during three-fourths of the year, and twice a week during the remainder of the time, to the members of the Sophomore and Freshman classes, and to the other students who desired to attend. An earnest call for aid to increase our collection of specimens illustrative of the several branches of this subject, has met with a generous response. The amount raised by this appeal, about twelve hundred dollars, has been expended during the year in the construction of cases for the reception of the specimens on hand, and those which have been purchased to add to the collection. More cases are now needed to contain specimens not yet arranged for want of room. These will be constructed as soon as funds are contributed for this purpose. The contribution of two thousand dollars would enable us to put the Cabinet, for the present, in very good working condition, and it is hoped that friends will contribute this sum for that object during the present year. Those who contemplate making donations for the Museum are invited to examine the present condition of the Cabinet, and the plans which have been proposed by the Committee for its further development. It may be made one of the most interesting and valuable features of the Institution, and it should not be allowed to languish for want of means.

The departments of Mathematics, History, English Literature, Elocution, Penmanship and Drawing are in a satisfactory condition, and remain under the same general direction as last year.

The Library has not been increased since the last report so much as could be desired, or as the needs of the College actually require. Except a few small donations, nothing has been contributed for this purpose during the year, and the funds regularly appropriated to the

use of the Library have been chiefly expended in procuring cases for the proper arrangement of the books already obtained. Ample provision is now made in the second story of the central building, for a Reference Library, and we hope that liberal donations will be made during the coming year for the express purpose of filling these shelves with suitable books of reference. Those now in the possession of the College, are more constantly used than even the text books themselves, and at least one thousand dollars should be at once expended for books, maps, globes and charts, to be placed in this Library for the use of all the students.

Reference was made in the report of last year to a room fitted up in one of the fire-proof alcoves for the reception of Friends' books and those which pertain to the history of the Society. An appeal was then made to Friends to contribute to this Library (called the Anson Lapham Repository) such suitable volumes as might be in their possession. The number of volumes in the Repository, which was then about one hundred and fifty, has since been increased by contributions from different members of the Board and others, but not so rapidly as the importance of such a library in this institution would seem to require. If interested Friends would *procure* works suitable to be deposited here, and forward them to the College, instead of depending upon the few which may be found in their own libraries, or if they would contribute funds for this purpose, the design of the founder would be more likely to be accomplished at an early day, and a library established from which the present generation of young persons who are being educated at Swarthmore could learn much of the history of the Society of Friends, and from which future historians could derive valuable information not elsewhere to be found.

Before passing from the subject of instruction we should once more add our testimony to the general verdict now being pronounced in favor of the co-education of the sexes in our higher institutions of learning. If it could, with any propriety, be called an experiment at the time of the opening of Swarthmore, it can surely be no longer so regarded. In our Western Colleges co-education is now the rule, separation the exception. In one of the Western States, containing a population of a million and a quarter, and more colleges, with actual college classes, than any State in New England, women are admitted to every one, and with the best results. Nor is co-education confined to the West alone. The older colleges of the East are moving in this matter, and some have already opened

their doors for the admission of women. The University of Vermont now numbers seven young women among her undergraduates, and they are reported as fully equal in scholarship to their classmates of the other sex. Without dwelling at length upon this subject it is sufficient to say, in this report, that co-education at Swarthmore continues to be, as heretofore, entirely satisfactory to all who have witnessed its results. Its effects are mutually beneficial upon the two sexes, both as to scholarship and character.

The Managers desire to express to the Stockholders their high appreciation of the care exercised over the family by those entrusted with the management of the internal affairs of the College, and they consider that the judicious maternal influence and watchful care of the Matron over the health and general welfare of the students demand their special notice, and that the confidence of Parents and Guardians who entrust to us the education of their children may be justly accorded to her and to our valued Superintendent, whose judicious and conscientious labors have greatly contributed to the welfare of the large household under our charge.

The subject of regular and systematic exercise in some useful employment claimed the attention of the Stockholders at their last annual meeting, and a small sum was then contributed toward the erection of a work-shop. Nothing has yet been done to supply the need felt by those who subscribed to this fund "for Mechanical Appliances." If this sum could now be increased to one thousand dollars, a shop could be erected, fitted with the necessary appliances, and placed in charge of our Professor of Applied Mathematics, who would attend to its proper organization, and give all needed instruction in this department. The opportunity is now presented to carry into effect the valuable suggestions of last year upon this subject. Students would be at once employed in making models and apparatus, which must otherwise be purchased at considerable expense, and the desideratum of combining exercise and profitable labor would be secured.

The Gymnasium has served an excellent purpose, regular exercises having been kept up during the year, by boys and girls, in separate classes, under the direction of the teacher of gymnastics. The workshop would supplement the gymnasium, but could never take its place. These exercises are even of greater advantage to the girls than to the boys, and the present gymnasium, on the boys' grounds, is quite inadequate to supply the needs of the College. It is exceedingly difficult to induce girls to take sufficient exercise to

preserve them in health and strength for the successful pursuit of their studies. This is especially true of the members of the higher classes. If we hope to enable our girls to continue their course of study to the end, we must offer them every inducement and every facility to take the exercise which their health demands. Our success in raising the standard of the education of woman is absolutely dependent upon it. In this view it will be seen that one of the most important improvements which should be made during the coming year, is the building, upon the girls' grounds, of a gymnasium with a natatorium attached. The sum of five thousand dollars will be needed for this purpose.

While improvements have been made within the College, by the organization of the several distinct departments and courses of study, and the employment of the best talent at command to carry out the plans proposed, the important work of improving the grounds and buildings has not been neglected by the Committee entrusted with this charge. The barn, which was called for in the report of last year, has been built; a fire-proof connection has been substituted for the wooden building between the College and the Laundry; the Physical Laboratory, before referred to, is in process of construction, and will be ready for occupancy by the beginning of the new year; several chambers have been prepared and furnished, and others are in preparation, for the accommodation of the increased number of students in the west end of the College; the long-delayed planting of trees for the new walk and drive is at length undertaken, the laying out of this walk and drive will be carried on during the open weather of the coming winter; and this year, as heretofore, these numerous improvements have been made by the liberal donations of the friends of the College, chief among which should be mentioned the recent generous subscription of five thousand dollars to improve the grounds, given by the President of the Board.

The Finance Committee would refer the Stockholders to the Treasurer's report for a full statement of the financial condition of the College. Although the number of students is considerably greater than at any previous period, in consequence of the moderate price of tuition the receipts are only sufficient to cover the current expenses; and are entirely inadequate to make the necessary increase in the Reference and General Libraries and the Cabinet of Natural History, supply additional apparatus to facilitate the instruction in the various departments, and make the needed improvements in the buildings and grounds. For these things the College must continue

to rely upon private liberality as heretofore; and it is a source of increasing satisfaction to the members of the Board to find that those who have once enlisted in the enterprise, and have had the best opportunity to witness the practical working of the institution, are the most ready to contribute liberally to its support and improvement.

Appeals have been made in this report for aid in various directions, and it is sincerely hoped that they will not have been made in vain. There is yet another great need, to which the Finance Committee referred last year, and which they would again press upon the attention of the Stockholders and friends of the College. The price of tuition and board, although merely sufficient to cover the actual expense incurred, is felt by some Friends, in limited circumstances, to be a heavy burden; and the only practicable method of reducing it is to establish an educational fund for the aid of those whose limited means require an abatement. The interest of a few thousand dollars has been thus applied this year, enabling several of our best scholars and most deserving students, to receive the advantages of a full course of study, which would otherwise be denied them. The interest of every sum of fifteen hundred dollars contributed to the educational fund, will enable us to make an abatement of one hundred dollars a year to a deserving student, whose stay at Swarthmore to complete the course is entirely dependent upon receiving this assistance. Of all the claims now pressing upon the friends of the College, this must take the foremost place. It is surely far more important to bring the facilities already at our command within the reach of those among us in limited circumstances, than to increase these facilities for those who are better able to afford them. It is, however, hoped that Friends of ample means, interested in the welfare of the Society, and in the advancement of sound learning, will not choose between the various real needs of the College, but, supplying and acknowledging the greater importance of one, will not forget the others.

The general summary of the additional means needed for the coming year, called for in this report, and for which the College must depend upon private generosity, will stand as follows:—

Apparatus and Reference Books for Chemical Laboratory,	$ 500
Apparatus and Reference Books for Physical Laboratory,	500
Cases and Specimens for Museum of Natural History,	2000

Books, Maps, Charts, &c., for Reference Library,	1000
Workshop and Mechanical Appliances,	1000
Girls' Gymnasium and Natatorium,	5000

This sum of ten thousand dollars is not merely a general statement of what might be expended with advantage during the coming year, but a carefully prepared estimate of the present actual needs of the College, and should be subscribed and paid in before the close of the year, besides making a considerable addition to the small educational fund.

That the receipts from the students will do no more than pay the regular current expenses of the College, including the necessary repairs, without making improvements of any kind, ought not to be a source of surprise or disappointment to the Stockholders. The finances have been most carefully and economically managed by the Treasurer and Finance Committee; and yet, with a largely increased number of students, little or no surplus can be expected at the end of the year. This must necessarily be the case, where the best instruction in all the various departments is offered to the students at a moderate price, with *no extra charges*, not even for the use of books. Nor can the friends of the College suppose that Swarthmore stands alone in depending, for improvements, upon private liberality. All of the principal colleges in the country depend so largely upon endowments and private subscriptions, that the receipts from the students constitute but a small portion of their annual income. If Swarthmore had for its chief object the accumulation of money, instead of the advancement of the cause of Education, there is no doubt but that a surplus, for a few years at least, could readily be saved from the present receipts, for the simple reason that much more would be received from the public than would be given to the public in return. Our College was surely never intended to be managed upon such principles, and to become a pensioner upon the public instead of a public benefactor. If its annual receipts continue to cover its regular current expenses and repairs, it is all that its best friends can reasonably expect; and the improvements must continue to be made, until the institution is largely endowed, by constantly renewed and liberal private subscriptions.

TREASURER'S REPORT

OF SUBSCRIPTIONS.

WM. CANBY BIDDLE, *Treasurer, in account with Swarthmore College.*

DR.

12th mo. 2d, 1871. To balance on hand as per last report,			$559 14
To cash from Baltimore Yearly Meeting:			
2d mo. 13th, 1872. Donation of		$5 00	
" " " Capital Stock, 1 share,		25 00	
			30 00
To cash from New York Yearly Meeting:			
2d mo. 1st to 6th mo. 27th, 1872.	Donation acct.,	$695 00	
2d mo. 13th to 10th mo. 15th, 1872.	Capital Stock acct., 55 shares,	1375 00	
			2070 00
To cash from Philadelphia Yearly Meeting:			
3d mo 27th to 10th mo. 8th, 1872.	Donation acct.,	$1353 10	
7th mo. 1st to 9th mo. 17th, 1872.	Interest acct.,	381 00	
12th mo. 23d, '71, to 11th mo. 6th, '72.	Capital Stock acct., 104 shares,	2600 00	
			4334 10
Total Receipts, including balance,			$7033 24

CR.

By Drafts of Finance Committee:			
10th mo. 18th, 1872. For deposit for $25,000 additional insurance on College Building,		$750 00	
12th mo. 21st, 1871, to 11th mo. 6th, 1872.	For Construction acct. to pay for Museum, Museum Cases, Barn, Stone Corridor, additions, &c.,	5817 40	
Total Disbursements,			$6567 40
Balance,			465 84

Of this sum one hundred dollars is specially deposited at interest for the Educational Fund.

WM. CANBY BIDDLE,
Treasurer.

We have examined the above account, compared it with vouchers for payments, and find it correct, showing a balance in the Treasurer's hands of four hundred and sixty-five dollars and eighty-four cents.

ISAAC STEPHENS,
CLEMENT BIDDLE,
Auditors.

PHILADELPHIA, *Eleventh month* 30*th*, 1872.

BY-LAWS.

LAW I.

MEETINGS.

There shall be five stated meetings of the Board annually: on the Second Third-day in the Second and Ninth months, on the Third-day following the Philadelphia Yearly Meeting in the Fifth month, on the day preceding and on the adjournment of the annual meeting of the Stockholders. Special meetings shall be called by the Secretary when requested by five members. Eleven members constitute a quorum.

LAW II.

OFFICERS AND COMMITTEES.

A President of the Board of Managers, Secretary, Auditors, Finance Committee, Building Committee, Instruction Committee, Committee on Museum, Committee on Auson Lapham Repository, and an Executive Committee, shall be appointed annually at the meeting succeeding the annual meeting of stockholders, and, should none be appointed at that time, those previously appointed shall continue to fulfil the several duties prescribed until others are duly appointed. All the other committees shall be authorized to report to the Executive Committee.

LAW III.

THE PRESIDENT.

The President shall preside at the meetings of the Board and decide all questions of order.

LAW IV.

THE SECRETARY.

The Secretary shall keep regular minutes of the meetings of the Board, as adopted at the time; shall notify the members of the time and place of meeting, inform committees of their appointment, and act, under direction of the Board, in all matters pertaining to the office.

LAW V.

THE TREASURER.

The Treasurer shall hold the funds belonging to the Corporation, subject to the disposition of the Board; shall sign the certificates of stock, and shall issue these, on demand, to all subscribers who have paid their instalments in full. In the investment of the funds he shall be guided by the advice and direction of the Finance Committee. He shall report to the Board at the stated meetings in the Second and Twelfth months.

LAW VI.

THE FINANCE COMMITTEE.

The Finance Committee shall draw all orders on the Treasurer for expenses authorized by minute of the Board, and the orders shall not be valid without the signatures of at least two of this Committee. They shall also advise with and direct the Treasurer in regard to the investment of the funds of the corporation.

LAW VII.

THE AUDITORS.

The Auditors shall audit the accounts of the Treasurer twice in the year, immediately previous to the time of his reports, to which they shall append the result of their audits.

LAW VIII.

THE EXECUTIVE COMMITTEE.

This Committee shall consist of sixteen members, who shall have the general supervision of the College, etc., during the recess of the Board of Managers, and, subject to its approval, shall decide upon such appointments of Professors and Teachers as may become necessary.

They shall also appoint such other employés as may, in their judgment, be required.

They shall render the Faculty such aid as may be in their power in relation to instruction and discipline, and report their proceedings, twice in the year, to the Board of Managers.

LAW IX.

THE FACULTY.

The President, Matron, and such of the resident Professors and others as may be elected by the Board, shall constitute the Faculty.

and shall hold regular meetings, arrange the course of study, determine the qualifications for admission into the several departments and classes, and for graduation, decide upon rules of order, and determine all questions pertaining to the discipline or instruction, subject to the approval of the Executive Committee, to whom they shall report monthly.

LAW V.

ANNUAL REPORT.

The President and the Executive Committee shall frame the Annual Report to the Stockholders, which shall be submitted to the Board for approval at the meeting immediately preceding the annual meeting.

LAW VI.

COMMITTEE ON TRUSTS, ENDOWMENTS AND SCHOLARSHIPS.

The Managers shall appoint five of their number to constitute the Committee on Trusts, Endowments, and Scholarships, to hold office three years, or during the pleasure of the Board.

It shall be the duty of this Committee to receive, invest in the name of the College, and hold in their custody, all sums of money, stocks, mortgages, and other property that may be given or bequeathed to Swarthmore College for General Endowments, for Special Endowments, or for Educational Endowments.

The Board of Managers shall direct the application of the interest of each of those funds: of General Endowments, to the general purposes of the College; of Special Endowments, to the particular purpose for which the Fund was given; and of Educational Endowments, to the aid of those who would otherwise be excluded, by their limited means, from enjoying the advantages of an education at this College.

SCHOLARSHIPS.

A donation to the College of the sum of five thousand dollars, to be held by this Committee, shall found a scholarship in perpetuity, in the gift of the donor, and of his legal heirs or of any assignee approved by the Board of Managers.

Nominations under perpetual Scholarships shall be subject to the same limitations and restrictions as are placed on nominations under Scholarships for limited periods.

SCHOLARSHIP FOR TWO LIVES.—Any person giving to the College the sum of Four Thousand dollars, to be held by this Committee, shall have the privilege of nominating, during his or her lifetime, one student who, when approved, shall be admitted, subject to all the rules and regulations of the College, and shall be entitled to board and tuition without charge.

When from any cause such student's attendance at the College ceases, another may be nominated, and the privilege of nomination shall be extended under such Scholarship to one successor, provided such successor shall be duly appointed by the donor during his or her lifetime.

On the death of the successor the principal sum of Four Thousand dollars shall merge into the General Endowment Fund.

The College, however, in all cases of Scholarships, whether perpetual or otherwise, reserves to itself the right at any time to return the principal sum to any donor, or his legal representatives, whose right shall thereupon cease and determine.

This Committee shall make a full report, including an audited statement of investments, and of its Treasurer's account, to the Board of Managers at the meeting preceding the annual meeting of the Stockholders.

The interest is to be paid to the Treasurer of the College as received by this Committee.

LAW XII.

ALTERATIONS AND AMENDMENTS.

These By-Laws may be altered or amended at any meeting of the Board next preceding the annual meeting, notice of such change having been given at a previous stated meeting.

STOCKHOLDERS' MEETING.

The Stockholders' meeting is held annually on the first Third-day in the Twelfth month, at 3 o'clock P. M., according to public notice in one or more newspapers published respectively in Philadelphia, New York and Baltimore.

ERRATUM.

On page 30, the sixth and seventh line from bottom are transposed.